In [1]:
```
d1={"apple":50,"mango":100,"kivi":200,"banana":40}
```

In [4]:
```
d1.keys()
```

Out[4]:
```
dict_keys(['apple', 'mango', 'kivi', 'banana'])
```

In [5]:
```
d1.values()
```

Out[5]:
```
dict_values([50, 100, 200, 40])
```

In [6]:
```
#adding new element
d1["grapes"]=50
```

In [7]:
```
d1
```

Out[7]:
```
{'apple': 50, 'mango': 100, 'kivi': 200, 'banana': 40, 'grapes': 50}
```

In [8]:
```
#changing and exsting element
```

In [9]:
```
d1["apple"]=100
```

In [10]:
```
d1
```

Out[10]:
```
{'apple': 100, 'mango': 100, 'kivi': 200, 'banana': 40, 'grapes': 50}
```

In [12]:
```
d2={"orange":45,"papaya":120,"chiku":80,"watrmelon":150}
```

In [13]:
```
d2
```

Out[13]:
```
{'orange': 45, 'papaya': 120, 'chiku': 80, 'watrmelon': 150}
```

In [14]:
```
#update one dict
```

In [15]:
```
d1.update(d2)
```

In [16]:
```
d1
```

Out[16]:
```
{'apple': 100,
 'mango': 100,
 'kivi': 200,
 'banana': 40,
 'grapes': 50,
 'orange': 45,
 'papaya': 120,
 'chiku': 80,
 'watrmelon': 150}
```

In [17]:
```
#poping an element
```

In [18]:
```
d1.pop("grapes")
```

Out[18]:
```
50
```

In [20]:
```
#string
```

In [21]:
```
v1 = "hello"
v2 = "world"
```

In [25]:
```
v1,v2
```

Out[25]:
```
('hello', 'world')
```

In [26]:
```
#concatenete
```

In [27]:
```
v1+v2
```

Out[27]:
```
'helloworld'
```

In [28]:
```
print(v1+v2)
```

```
helloworld
```

In [29]:
```
#access substring
```

In [32]:
```
substring = v2[0:8]
```

In [33]:
```
print("substring",substring)
```

```
substring world
```

In [ ]:
```

```

In [34]:
```
# numpay
```

In [1]:
```
import numpy

arr = numpy.array([1,2,3,4,5])
print(arr)
```

```
[1 2 3 4 5]
```

In [3]:
```
import numpy as np

arr = np.array([1,2,3,4,5])
print(arr)
```

```
[1 2 3 4 5]
```

In [ ]: